HTS

Countersunk total thread screw

Carbon steel with white galvanic zinc coating

PACKAGING

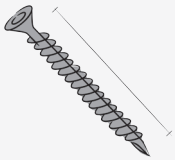
Box + BIT

FINE THREAD

Fine thread for the utmost screwing precision, also on particle board

TOTAL THREAD

Total thread (85% of the length) with a smooth under head, for maximum coupling efficiency

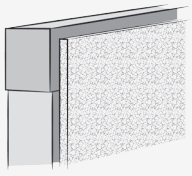


ECO-FRIENDLY

Trivalent Cr^{3}+ chrome coating, replacing hexavalent chrome Cr^{6}

FIELDS OF USE

Particle board, solid-wood, glulam, X-Lam, LVL, wood-based-panel joints. Service classes 1 and 2



METAL HINGES

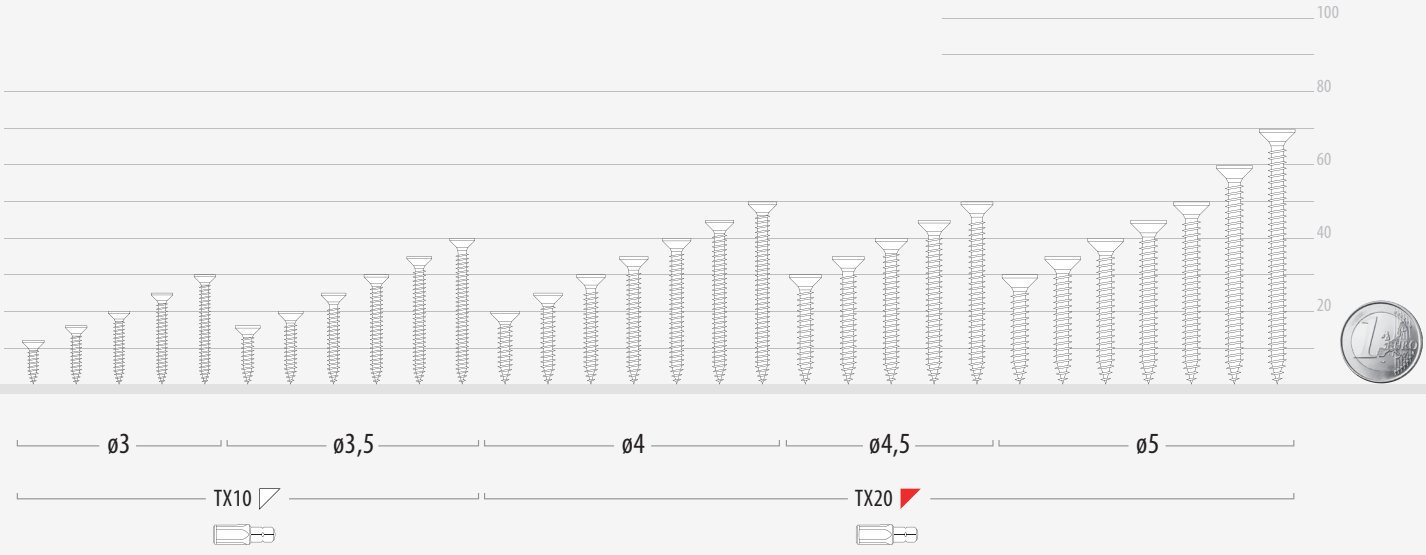
The total thread and special head geometry are ideal for fastening metal hinges when building furniture

PRECISE COUPLING

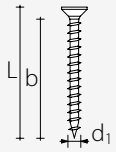
The reduced length total thread (85%) and the fine thread are ideal for precise fastening of thin panels

Range

Ideal for usage with single bit, easily exchanged in the bit holder (two TX measures for the entire range) to obtain the utmost precision and ease of screwing. The self-perforating unnotched tip increases the initial grip of the screw. The total thread with smooth under head allows for the closure of the pieces.

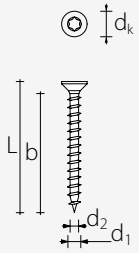


Codes and dimensions



d_1 [mm]	code		L [mm]	b [mm]	pcs/pckg
3 *TX10*	**HTS312**		12	10	500
	HTS316		16	13	
	HTS320		20	16	
	HTS325		25	21	
	HTS330		30	26	
3,5 *TX10*	**HTS3516**		16	13	500
	HTS3520		20	16	
	HTS3525		25	21	
	HTS3530		30	25	
	HTS3535		35	30	200
	HTS3540		40	34	
	HTS3550	new	50	42	
4 *TX20*	**HTS420**		20	16	500
	HTS425		25	21	
	HTS430		30	25	
	HTS435		35	30	200
	HTS440		40	34	
	HTS445		45	39	
	HTS450		50	43	
4,5 *TX20*	**HTS4530**		30	25	200
	HTS4535		35	30	
	HTS4540		40	34	
	HTS4545		45	38	
	HTS4550		50	43	
5 *TX20*	**HTS530**		30	25	200
	HTS535		35	30	
	HTS540		40	34	
	HTS545		45	38	
	HTS550		50	43	
	HTS560		60	51	100
	HTS570		70	60	
	HTS580	new	80	67	

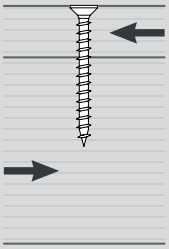
Geometry



HTS SCREWS						
Nominal diameter	**d_1 [mm]**	**3**	**3,5**	**4**	**4,5**	**5**
Head diameter	d_k [mm]	6,00	7,00	8,00	8,80	9,70
Tip diameter	d_2 [mm]	2,00	2,20	2,50	2,80	3,20
Pre-bored hole diameter	d_v [mm]	2,0	2,0	2,5	3,0	3,0

Carpenter statics

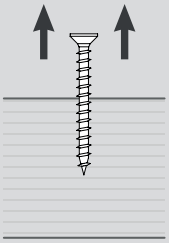
SHEAR V_{adm}



WOOD-WOOD [1]

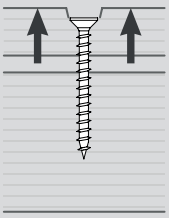
d_1 [mm]	L [mm]	V_{adm}
3	≥ 30	12 kg
3,5	≥ 35	17 kg
4	≥ 40	21 kg
4,5	≥ 45	27 kg
5	≥ 60	40 kg

THREAD WITHDRAWAL N_{adm}



	Length L [mm]											
d_1 [mm]	**12**	**16**	**20**	**25**	**30**	**35**	**40**	**45**	**50**	**60**	**70**	**80**
3	15 kg	20 kg	24 kg	32 kg	39 kg	-	-	-	-	-	-	-
3,5	-	23 kg	28 kg	37 kg	44 kg	53 kg	60 kg	-	74kg	-	-	-
4	-	-	32 kg	42 kg	50 kg	60 kg	68 kg	78 kg	86 kg	-	-	-
4,5	-	-	-	-	56 kg	68 kg	77 kg	86 kg	97 kg	-	-	-
5	-	-	-	-	63 kg	75 kg	85 kg	95 kg	108 kg	128 kg	150 kg	168 kg

HEAD PENETRATION N_{adm}



d_1 [mm]	N_{adm}
3	14 kg
3,5	20 kg
4	26 kg
4,5	39 kg
5	47 kg

CALCULATION FORMULAS - SHEAR DIN 1052-2:1988

WOOD-WOOD

$V_{adm} = \min \{ 0,4 \cdot A \cdot d_1 ; 1,7 \cdot d_1^{\,2} \}$

d_1 [mm]
A [mm]
V_{adm} [kg]

NOTE

- Allowable values in accordance with DIN 1052:1988.
- The allowable extraction values are calculated considering the threaded part as being completely inserted into the wood.

[1] The allowable wood-wood shear resistance values were calculated on the basis of a fastenable thickness of L/3.